



PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of : Docket No.: OT-4465  
Terry M. Robar et al. : Date: August 30, 2001  
Appln. No.: 09/280,637 : Group Art: 2862  
Filing Date: March 29, 1999 : Examiner: W. Snow

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Title: METHOD AND APPARATUS FOR MAGNETIC DETECTION  
OF DEGRADATION OF JACKETED ELEVATOR ROPE (as Amended)

Commissioner for Patents  
Washington, DC 20231

I hereby certify that this correspondence is  
being deposited with the United States Postal  
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addressed to: Director of Patents and  
Trademarks, Washington, D.C. 20231 on

August 30, 2001

*Mary Forcier*  
Signature

August 30, 2001

Sir:

AMENDMENT

In response to the Office Action mailed May 30, 2001, please amend the above-  
identified application as follows.

IN THE SPECIFICATION:

Please amend the paragraph beginning at page 5, line 16 to read as follows

--According to Ohm's Law for magnetic circuits and including  
assumptions (a), (b) and (c) as stated above, the magnetic flux produced by the  
excitation system (with electromagnet or permanent magnet) is  $\Phi = \frac{NI}{\frac{\Delta l_r}{\mu_r} + \frac{2g}{\mu_0 S_g}}$   
and the magnetic flux density in the rope (equal to the magnetic flux density in a single  
strand) is  $B = \frac{\Phi}{S_r} = \frac{\mu_0 NI}{\frac{\Delta l_r}{\mu_r} + \frac{2g}{\mu_0 S_g}}$  where  $N$  is the number of turns of the electromagnet  
winding used for the excitation and  $I$  is the d.c. current in the electromagnet winding.  
The equivalent magnetic motive force (MMF)  $NI$  can also be produced by a permanent

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